

## SHAHLA ALIYEVA

(Researcher and teacher)

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## EDUCATION

**2001-2005 BSc degree,** Azerbaijan State Pedagogical University (Baku, Azerbaijan)

**2005-2007 MSc degree,** Baku State University (Baku, Azerbaijan)

- Master's degree in physics of biological systems

**2011-2016 Doctor of Philosophy (Ph.D.) in Physics (Baku, Azerbaijan)**

- Presented topic for the degree of Doctor of Philosophy in Physics from *Electronics* is "**Magnetic properties of  $\text{Ni}_{1-x}\text{Zn}_x\text{Fe}_2\text{O}_4$  micropowders and thin films**"

## PUBLICATIONS

**51 scientific works** (articles and conference materials)

## SOME SCIENTIFIC PAPERS PUBLISHED IN THE LAST 10 YEARS

1. Aliyeva Sh.N., Aliyeva S.I., Mehdiyev T. R. SHF-magnetic properties of FD-resistor shell // Technical and Physical Problems of Engineering, 2013, vol.5, № 1, pp.119-126
2. Aliyeva Sh.N., Aliyeva S.I., Mehdiyev T. R. SHF magnetic properties of (Ni-Zn) ferrit- dielectric- metal // EURAS Academic Journal, Winter 2 012-2013, vol.1, № 2, Section: En, pp. 31-44
3. Алиева Ш.Н., Наджафов А.И. Мехтиев Т.Р.Онекоторых особенностях в спектрах ЭПР (Ni,Zn) ферритов // AJP Fizika, 2013, vol. XIX, No2, Section:Az, s.107-114

4. Aliyeva Sh.N., Aliyeva Y.N., Nadjafov A.I., Mehdiyev T.R. EPR and SPM studies of Zn-Ni ferrites // ICTMC-19, Niigata, Japan, 2014, p.113
5. Aliyeva Sh.N., Aliyeva Y.N., Mamiyev Z.Q., Karimova A.M., Huseynov E.K., Alekberov O.Z., Mammedov N.T., Mehdiyev T.R. The peculiarities of low-temperature spectra of paramagnetic resonance of nanodimensional powders and magnetic structure of thin film surfaces of (Ni-Zn)-ferrites / ICTF-16, Dubrovnik, Croatia, 2014, p.178
6. Aliyeva Sh.N., Aliyeva Y.N., Nadjafov A.I., Hasanov I.S., Huseynov E.K., Mehdiyev T.R. EPR and SPM studies of Zn-Ni ferrites // Phys. Status Sol.(c) 12, 2015, No 6, p.615-619
7. Əliyeva Ş.N., Kərimova A. M., Babayev S.S., Hüseynov E.K., Mehdiyev T.R.  $Ni_{1-x}Zn_xFe_2O_4$  ferritlərinin Raman spektrləri // AJP Fizika, 2015, vol. XXI, s.17-28
8. Алиева Ш.Н., Керимова А.М., Абдуллаев Р.Б., Мехтиев Т.Р. Инфракрасные спектры микропорошков  $Ni_{1-x}Zn_xFe_2O_4$  ферритов // Физика твёрдого тела, 2017, т.59, вып.3, с.528-533
9. Алиева Ш.Н., Мехтиев Т.Р. Особенности магнитных взаимодействий в наноразмерных  $Ni_{1-x}Zn_xFe_2O_4$  –ферритах / Физика диэлектриков, Материалы XIV Международный конференции, Санкт-Петербург, 29 май-2 июня 2017, т.1, с.169-171
10. Aliyeva Sh.N., Mehdiyev T.R. Peculiarities of magnetic interaction in  $Ni_{1-x}Zn_xFe_2O_4$  // European Conference on Innovations in Technical and Natural Sciences, Vienna, Austria, 2017, p. 76-82
11. Aliyeva Sh., Mehdiyev T. Peculiarities of magnetic Interaction in  $Ni_{1-x}Zn_xFe_2O_4$  nanodimensional ferrites // Smart Nanocomposites, 2017, vol.8, p.149-153
12. Aliyeva Sh., Babayev S., Mehdiyev T. Raman Spectra of  $Ni_{1-x}Zn_xFe_2O_4$  nanopowders // Journal of Raman Spectroscopy, February 2018, vol.49, issue 2, p.271-278

13. Mehdiyev T.R., Yusibova I.F., Sadigova A.A., Ahmadova Sh.A. Peculiarities of Raman spectra of Ni-Zn ferrites // Proc. of 15th Intern. Conf. ICTPE, Istanbul, Turkey, 2019, p. 113-117
14. Алиева Ш.Н., Мехтиев Т. Р., Алиев О. А., Юсибова И. Ф., Агашков А. В. Спектры люминесценции в  $Ni_{1-x}Zn_xFe_2O_4$  / LIV Школа ПИЯФ по физике конденс. состояния, ФКС-2020 16–21 марта 2020 г., Санкт-Петербург, с.12
15. Mehdiyev T.R., Ahmadova Sh.A., Sadigova A.A., Aliyeva Sh.N., Gasanova X.A. Investigation of photoluminescence properties of Ni-Zn ferrites // Proc. of 16th Intern. Conf. ICTPE, Istanbul, Turkey, 2020, p. 66-69
16. Aliyeva Sh.N, Mehdiyev T.R., Hashimov A.M., Sadigova A.A., Yusibova I.F. Radiative transitions in  $Ni_{1-x}Zn_xFe_2O_4$  nanopowders // IJTPPE - Issue 48, Volume 13, Number 3, September 2021 (Serial No: 0048-1303-0921), p.99-104
17. Aliyeva Sh.N., Mehdiyev T.R., Hashimov A.M., Yusibova I.F., Sadigova A.A. Luminescent peculiarities in FD- resistors // ICTPE-2021, Number 16, Code 02ELC06, p. 79-82
18. Aliyeva Sh.N, Mehdiyev T.R., Hashimov A.M., Yusibova I.F., Sadigova A.A. Optic radiation of thin-film structure of FD-resistor with active  $Ni_{0.4}Zn_{0.6}Fe_2O_4$  layer // IJTPPE - Issue 50, Volume 14, Number 1, March 2022 (Serial No: 0050-1401-0322), p.161-165
19. T.R. Mehdiyev, A.M. Hashimov, S.N. Aliyeva , I.F. Yusibova, K.A. Hasanova, Ferrite nano-films on FD-resistor shell // IJTPPE, v.15, p.322-329, 2023
20. X.N. Əhmədova , S.H. Cabarov , Ş.N. Əliyeva, X.O. Sadiq. Nano ölçülü Al nazik təbəqələrinin alınması və onların quruluş xüsusiyyətləri //AJP FİZİKA, 2023, section C: Conference H.A. Aliyev, səh 94-97,
21. Ahmadova Kh.N., Jabarov S.H., Aliyeva Sh.N., Structural properties systems of Al and  $Fe_3O_4$  layered thin films / “Фазовые переходы, критические и нелинейные явления в конденсированных средах” СБОРНИК ТРУДОВ международной конференции, посвященной 300-летию

Российской академии наук, 10-15 сентября 2023 г. Дагестан ст.220-221 <http://dagphys.ru/conference>

22. Мехтиев Т.Р., Алиева Ш.Н., Джабаров С.Г., Юсибова И.Ф. , Ахмедова Х. Н., Кичанов С.Е., Руткаускас А.В., Гасанова Х. А.//Фрактальные агрегации в Ni-Zn феррошпинелях / “Фазовые переходы, критические и неявления в конденсированных средах” СБОРНИК ТРУДОВ международной конференции, посвященной 300-летию Российской академии наук, 10-15 сентября 2023 г. Дагестан ст.226-227 <http://dagphys.ru/conference>
23. Mehdiyev T., Aliyeva Sh., Jabarov S., Yusibova I., Hasanova Kh., Akhmedova Kh., Fractal-Cluster Associations in (Ni-Zn) and (Ni-Zn-Cu) Ferrites / ICMECE-2023, p 74-79
24. Mehdiyev T. R., Aliyeva Sh.N.,Jabarov S. H., Ahmadova Kh. N., Yusibova I. F. Temperature Dependences of the Total Spin Moment in Nanopowders of  $Ni_{1-x}Zn_xFe_2O_4$  ( $x=0.0; 0.25; 0.5; 0.75; 1.0$ ) Ferrosinels // Journal of Superconductivity and Novel Magnetism, 2023, 36, Number:1, Pages:367-371
25. T.R. Mehdiyev , A.M. Hashimov , S.H. Jabarov , Sh.N. Aliyeva , S.E. Kichano, A.V. Rutkauskas , I.F. Yusibova , Kh.N. Ahmadova , Cluster aggregation of  $Ni_{1-x}Zn_xFe_2O_4$  ferrosinels // Journal of Magnetism and Magnetic Materials,v.587, 171326

## Work Experience

**2009 – present**, Ministry of science and education, Institute of Physics, “Resonance Spectroscopy of Ferromagnetic materials” laboratory, head of laboratory

**2021-present**, ASOIU, teacher

**2022-present**, Khazar University, School of Science and Engineering department: Physics and Electronics, teacher

**Lecturer of Physics** General Physics, Applied Physics, History of Physics, School Physics Experiment, Spectroscopy

## **RESEARCH PROJECTS:**

1. 2012-2014 participant, “FP7 Seventh Framework Programme”, European Research Area
2. 2013-2014 participant, Pilot projects, The Science Development Foundation (SDFA) under the President of Azerbaijan Republic
3. 2012-2013 **Project Manager**- National Scholarship Programme, World Federation of Scientists ( WFS ), ERICE, Sweden
4. 2018-2020 International, The Science Development Foundation under the President of Azerbaijan Republic

## **SEMINARS-TRAININGS:**

1. 2011- 7<sup>th</sup> International Conference Technical and Physical Problems of Engineering, Northern Cyprus (Lefkosa)
2. 2012-8<sup>th</sup> International Conference Technical and Physical Problems of Engineering, Norway (Fredrikstad)
3. 2013- EPR spectroscopy training, Wurzburg University, Germany
4. 2013- training, Ankara University, Turkey
5. 2013-International Summer School “Computational Design and Development of Materials for Renewable Energy – Photovoltaics” Baku, Azerbaijan
6. 2014- 19<sup>th</sup> International Conference on Ternary and Multinary Compounds, Japan (Niigata)
7. 2014- training, Gebze Technical University, Turkey (Gebze)
8. 2014-16<sup>th</sup> International Conference Thin films, Croatia (Dubrovnik)
9. 2018-training, B.I.Stepanov Institute of Physics of the NAS of Belarus (Minsk)

## **AWARDS:**

- 1.“National Scholarship Programme & end of scholarship CERTIFICATE”- World Federation of Scientists ( WFS ),ERICE, Sweden
2. “Competition of young scientists in 2013”- DIPLOMA

3. “Scientific competition held in connection with Hasan Abdullayev’s 100<sup>th</sup> anniversary- DIPLOMA